

WHAT IS CLAIMED IS:

1. An image sensor comprising:
 - (a) an array of pixels for collecting incident light and converting the light into an electrical charge;
 - (b) a color filter array having a plurality of colored filters positioned adjacent to the pixels for selectively transmitting specific spectral bands of light to the pixels; and
 - (c) a plurality of lenses positioned adjacent to individual pixels wherein the lenses positioned adjacent a first color of the colored filters are substantially larger in size than lenses adjacent a second color, such that a greater proportion of the incident light is focused onto the pixel adjacent the first color of the colored filter.
2. The image sensor as in claim 1, wherein the color filters include a blue colored filter which is the first color in the color filter array.
3. The image sensor as in claim 2, wherein the colored filter includes red and green colored filters either of which is the second color.
4. The image sensor as in claim 1, wherein the colored filter includes a red colored filter which is the second color.
5. The image sensor as in claim 4, wherein the colored filter includes a green colored filter which is a third color and which green colored filter is substantially smaller in size than the red colored filter.